

PATENT COOPERATION TREATY

PCT

13 JUL 2004

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference W071010PPC	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/ 00095	International filing date (day/month/year) 14/01/2003	(Earliest) Priority Date (day/month/year) 14/01/2002
Applicant THE UNIVERSITY OF BIRMINGHAM		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/00095

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>JUN ALBERT S ET AL: "Use of transmittochondrial cybrids to assign a complex I defect to the mitochondrial DNA-encoded NADH dehydrogenase subunit 6 gene mutation at nucleotide pair 14459 that causes Leber hereditary optic neuropathy and dystonia." MOLECULAR AND CELLULAR BIOLOGY, vol. 16, no. 3, 1996, pages 771-777, XP002245808 ISSN: 0270-7306 page 771 -page 773</p> <p style="text-align: center;">--- -/--</p>	1,6,25

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

1 July 2003

Date of mailing of the international search report

17/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Schulz, R

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/00095

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CAMPBELL K H S ET AL: "NUCLEAR TRANSFER IN PRACTICE" CLONING AND STEM CELLS, MARY ANN LIEBERT, LARCHMONT, US, vol. 3, no. 4, 2001, pages 201-208, XP008009809 ISSN: 1536-2302 the whole document ---	1-25
A	SHITARA H ET AL: "Selective and continuous elimination of mitochondria microinjected into mouse eggs from spermatids, but not from liver cells, occurs throughout embryogenesis" GENETICS, GENETICS SOCIETY OF AMERICA, AUSTIN, TX, US, vol. 156, November 2000 (2000-11), pages 1277-1284, XP002955772 ISSN: 0016-6731 the whole document ---	8-13
A	BLERKOM VAN J ET AL: "MITOCHONDRIAL TRANSFER BETWEEN OOCYTES: POTENTIAL APPLICATIONS OF MITOCHONDRIAL DONATION AND THE ISSUE OF HETEROPLASMY" HUMAN REPRODUCTION, IRL PRESS, OXFORD, GB, vol. 13, no. 10, 1998, pages 2857-2868, XP001002313 ISSN: 0268-1161 the whole document ---	14-18
A	WO 01 30980 A (JURISICOVA ANDREA ;CASPER ROBERT F (CA); ROGERS IAN (CA); MOUNT SI) 3 May 2001 (2001-05-03) the whole document -----	21-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/00095

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0130980	A	03-05-2001	AU 1123301 A	08-05-2001
			WO 0130980 A2	03-05-2001
			CA 2389117 A1	03-05-2001
			EP 1234021 A2	28-08-2002
			JP 2003512833 T	08-04-2003
